

## REQUIREMENTS

1. DESIGN

1.1 Type.- This Specification Control Drawing (SCD) defines the requirements For the Guidance and Navigation Computer Buffer Unit Modification Kit, hereinafter referred to as the kit.

1.2 General Design.- Unless otherwise specified the kit shall be designed to meet the applicable design requirements in the latest revision of SCD ME 901-0271 and NAA/S&ID Specification MC 901-0271.

1.3 Function.- The kit shall provide modification for a Guidance and Navigation Computer Buffer Unit, control No. ME 901-0271-0002, hereinafter referred to as the G&N buffer. The modification shall include:

- (a) Devices for electromagnetic interference (EMI) control
- (b) Humidity indication
- (c) Humidity control

1.3.1 EMI Control.- The kit, when installed on the G&N buffer, shall provide the G&N buffer with EMI characteristics conforming to the requirements in the latest revision of Specification MC 901-0271.

1.4 Components.-

1.4.1 EMI Control Components.- The kit shall include, as a minimum, the following EMI control components:

- (a) High frequency bypass capacitors for each power lead at or near the G&N buffer connectors
- (b) Removable connector caps providing EMI shielding for each G&N buffer connector
- (c) Gaskets for each G&N buffer connector to provide EMI and environmental shielding
- (d) Method for bonding G&N buffer connectors to the G&N buffer
- (e) Method for shield termination of input and output signal cables at the G&N buffer
- (f) Filters for the 28-volt power leads of the G&N buffer.

E.O. 478862

REVISED

FORM 915-M-1 NEW 6-53

TOLERANCES, EXCEPT AS NOTED ANGLES ± 30' DECIMALS .XX = ±.03 .XXX = ±.010		TOLERANCES ON HOLES NOTED "DRILL" .013 THRU .040 : +.001 - .001 .041 THRU .120 : +.002 - .001 .121 THRU .220 : +.003 - .001 .230 THRU .300 : +.004 - .001		CODE IDENT NO <b>03953</b>	
DR BY C. Bauer		2-24-66		<b>CONTROL PART</b>  ME 476-0070	
CHK BY					
APPROVED BY <i>[Signature]</i>		NORTH AMERICAN AVIATION, INC. SPACE and INFORMATION SYSTEMS DIVISION 12214 LAKEWOOD BLVD. DOWNEY, CALIFORNIA		SHEET 2	
<i>[Signature]</i>		MODIFICATION KIT, COMPUTER BUFFER UNIT, GUIDANCE AND NAVIGATION <b>SPEC CONTROL DRAWING</b>			

1.4.2 Humidity Indicator.- The kit shall provide an externally-mounted visual indicator for the G&N buffer. The indicator shall conform to the requirements of Specification MIL-I-26860A, dated 24 July 1958. The indicator shall include a 6-spot, color-change card covering the range of zero to 60 percent humidity in 10-percent steps.

1.4.3 Desiccant.- The kit shall include desiccant for moisture control inside the G&N buffer. The desiccant shall be enclosed in a container permitting moisture-vapor adsorption. The desiccant shall be noncorrosive and shall be rechargeable or replaceable in the field. The kit shall include sufficient desiccant to maintain the relative humidity within the G&N buffer between zero and 30 percent during exposure to the nonoperating environmental conditions specified in Specification MC 901-0271.

2. PERFORMANCE (Not required for control purposes).

3. ENVIRONMENTAL

3.1 Operating/Nonoperating.- The kit shall be capable of withstand the environmental requirements of the latest revision of Specification MC 901-0271.

4. IDENTIFICATION AND MARKING

4.1 Parts Identification.- Each part of the kit shall be marked or tagged to ensure identification with the kit.

4.2 Identification of Equipment.- The kit package shall be marked in accordance with the requirements of Standard MIL-STD-130B, dated 24 April 1962, as follows:

Item Name \_\_\_\_\_  
 NAA/S&ID Control No. \_\_\_\_\_  
 Contract No. \_\_\_\_\_

4.3 Identification Plate.- The kit shall include a modification identification plate designed to be installed next to or below the identification plate on the G&N buffer. The identification plate shall be marked in accordance with the requirements of Standard MIL-STD-130B and, as a minimum, shall include the following:

NAA/S&ID Kit Control No. \_\_\_\_\_  
 Subcontractor's Kit Part No. \_\_\_\_\_  
 Manufacturer's Component Part No. \_\_\_\_\_  
 Name of Manufacturer \_\_\_\_\_  
 Contract No. \_\_\_\_\_

FORM 825-M-1 NEW 6-63

REVISED

TOLERANCES, EXCEPT AS NOTED ANGLES ± 30° DECIMALS .XX ± .05 XXX ± .010		TOLERANCES ON HOLES NOTED "DRILL" .03 THRU .040 : +.001 - .001 .041 THRU .130 : +.002 - .001 .131 THRU .220 : +.003 - .001 .220 THRU .300 : +.004 - .001		0.01 THRU .750 : +.006 - .001 .751 THRU 1.000 : +.007 - .001 1.001 THRU 2.000 : +.010 - .001	CODE IDENT NO <b>03953</b>
DR BY G. Bauer	2-24-66	NORTH AMERICAN AVIATION, INC. SPACE and INFORMATION SYSTEMS DIVISION 12214 LAKEWOOD BLVD., DOWNEY, CALIFORNIA		<b>CONTROL PART</b>	
CHK BY		MODIFICATION KIT, COMPUTER BUFFER UNIT, GUIDANCE AND NAVIGATION		ME 476-0070	
APPROVED BY <i>Alb. J. ... 2/24/66</i> <i>2-24</i>		<b>SPEC CONTROL DRAWING</b>		SHEET 3	

5. **QUALITY ASSURANCE PROVISIONS**

5.1 Acceptance Tests.- Prior to delivery and as a condition of acceptance, the subcontractor shall subject each kit to the acceptance test specified in 5.1.1.

5.1.1 Examination of Product.- The quantity and type of parts in the kit shall be checked for conformance to the subcontractor's kit drawing.

6. **PREPARATION FOR DELIVERY**

6.1 General.- Requirements specified herein govern preparation of items for shipment.

6.2 Preparation for Delivery to NAA/S&ID Facilities.- The following shall apply to the preparation for delivery of items to NAA/S&ID facilities in California and Oklahoma.

6.2.1 Packaging, Packing, and Marking. - Items shall be packaged, packed, and marked in accordance with the requirements of NAA/S&ID Specification MA 0116-017D, dated 29 October 1965, SP 132.

6.3 Preparation for Delivery of Direct Shipment to Sites.- Items which are designated as spares or items and equipment other than spares which are shipped direct to the sites shall be preserved, packaged, packed, and marked in accordance with additional requirements to be provided by NAA/S&ID.

FORM 92-N-1 NEW 6-65

REVISED

TOLERANCES, EXCEPT AS NOTED ANGLES ± 30' DECIMALS .XX ± .05 XXX ± .010		TOLERANCES ON HOLES NOTED "DRILL"		013 THRU 040 : +.001 - .001	501 THRU 750 : +.005 - .011	CODE IDENT NO
				041 THRU 130 : +.002 - .001	751 THRU 1000 : +.007 - .001	03953
				131 THRU 220 : +.003 - .001	1001 THRU 2000 : +.010 - .001	
				220 THRU 300 : +.004 - .001		
DR BY	C. Bauer	2-24-66	NORTH AMERICAN AVIATION, INC. SPACE and INFORMATION SYSTEMS DIVISION 12214 LAKEWOOD BLVD., DOWNEY, CALIFORNIA			<b>CONTROL PART</b>
CHK BY			MODIFICATION KIT, COMPUTER BUFFER UNIT, GUIDANCE AND NAVIGATION SPEC CONTROL DRAWING			ME 476-0070
APPROVED BY <i>[Signature]</i>						SHEET 4